Author Index

Abe, T., 388
Albro, P. W., 273
Alexeeva, K. V., 65
Arsenyev, Yu. N., 79
Asai, K., 355
Askew, W. C., 359
Baerheim Svendsen, A., 370, 381
Barbieri, U., 151
Barrett, J., 261
Beckers, J. L., 165
Beckett, A. H., 285
Benocci, S., 311
Berezkin, V. G., 1, 25
Berezkina, L., 31
Berman, A. D., 3
Beskova, G. S., 71
Böhme, H.-J., 209
Bogoslovsky, Yu. N., 17
Borisova, S., 31
Breckenridge, W. C., 291
Brinkman, U. A. Th., 181
Broadhead, G. D., 373
Butusova, A. I., 71
Buys, T. S., 87
Cisle, J. H., 411
Clerk, K. de, 87
Collins, G. B., 198
Cremer, E., 135
Crocker, L. E., 419
Dack, C. J., 249
Darskus, R. L., 341
Davis, J. M., 333
Deckert, F. W., 201
De Clerk, K., 87
De Jong-de Vos, R., 407
De Ligny, C. L., 243
Dementyeva, M. I., 47
Denner, W. H. B., 426
Determann, H., 123
Deyl, Z., 129
Dhar, D. N., 416
Drobishev, V. I., 317
Dubrova, N. A., 47
Dutta, J., 207
Ehhalt, D. H., 103
Eisen, O., 53
Everaerts, F. M., 165
Fishbein, L., 273
Fleischman, R. A., 411
Forrest, J. E., 115
Forrest, T. P., 115
Fujishima, I., 194
Ghosh, A., 207
Golovnya, R. V., 79
Grahl-Nielsen, O., 366
Griffiths, B. W., 391
Grunert, E., 395
Hance, R. J., 204
Heacock, R. A., 115
Heidt, L. E., 103
Hoffmann, P., 368
Hofmann, E., 209
Holmes, D. C., 198
Hoque, M., 207
Horst, H.-J., 395
Howery, D. G., 249
Inaba, T., 377
Inada, Y., 388
Ishii, D., 94, 355
Iwanow, A., 53
Izuda, M., 194
James, K. C., 141
Janák, J., 1
Janik, A., 231
Jellinek, M., 402
Johnson, D. E., 215
Jong-de Vos, R. de, 407
Kalman, S. M., 157
Kalow, W., 377
Keefer, L. K., 215
Kennedy, J. F., 325
Khramova, L. P., 65
Klesment, I., 1, 37
Kojima, N., 223
Kopperschläger, G., 209
Kramer, R., 135
Kulaev, I. S., 317
Kundel, H., 59
Kuroda, R., 223
Lampert, K., 123
Leene, H. R., 181
Ligny, C. L. de, 243
Lille, Ü., 59
Lodge, B. A., 419
McKone, C. E., 204
Mansurova, S. E., 317
Marsden, N. V. B., 385
Massaglia, A., 151
Michálek, M., 305
Misra, S. S., 416
Mrva, B., 305
Neri, P., 311
Nishimura, Y., 388
Öberg, P. Å., 385
Oguma, K., 223
Ojika, Y., 194
Ostrogovich, G., 219
Persson, A., 385
Prokopenko, N. A., 47
Rabinovich, A. S., 47
Rahman, M. K., 261
Rajkowski, K. M., 373
Rasmussen, K. E., 370, 381
Rasmussen, S., 370, 381
Reed, III, T. M., 359
Richards, G. T., 141
Rosa, U., 151
Rosmus, J., 129

Safta, M., 219
Sakharov, V. M., 17
Sakodynskiĭ, K. I., 1
Sams, L. C., 363
Schamp, N., 421
Schepartz, A. I., 411
Schevchuk, I. M., 17
Schulz, J., 209
Schweers, W., 368
Seidl, E., 135
Seiler, K. E., 363
Shiryaeva, V. E., 25
Solheim, E., 366
Stokes, A. M., 426
Stoye, M., 395
Svetlova, N. I., 79
Takenaka, O., 388
Tamaura, Y., 388
Tamm, N., 31
Tarli, P., 311
Teisman, H. G. J., 407
Testa, B., 285
Tramell, P., 157
Treiber, L. R., 399
Tsuda, T., 194
Turner, T. D., 141
Ungvarský, C., 305
Vaciková, A., 349
Van Wassenhove, F., 421
Verweij, A., 407
Vincendon, G., 291
Vink, H., 237
Vries, G. de, 181
Výboh, P., 305
Wallen, M., 198
Wassenhove, F. van, 421
Watson, E., 157
Weiner, P. H., 249
Yanovskii, M. I., 3
Zanetta, J. P., 291
Zannino, M., 151

Erratum

J. Chromatogr., 65 (1972) 451–453

Page 451, 2nd line from the bottom "After cooling, the volume was adjusted to 1 l with water..." should read "After cooling, the volume was adjusted to 1 l with 2 *N*HCl...".

Subject Index

1-Acetyl biuret
PC and reflecting-integral densitometric quantitative analysis of the mixture 1-acetyl- and 1,5-diacetyl biuret with its cyclization product 2,4-dioxo-6-methyl-tetrahydro-*s*-triazin, 219
Acyl-leucines
GLC separation of oxazolin-5-one derivatives of an amino acid, 366
Adenylyl sulphate
A rapid chromatographic method for the separation of nucleotide sulphates, 426
Agar–agar
TLC of amino acids with —— as binder, 402
Alcohols
Retention index–structure relationships for —— using factor analysis, 249
Aldosterone
TLC of steroid derivatives for radioimmunoassay, 151
Aliphatic side-chains,
Pyrolytic and MS fragmentation of —— in alkylresorcinols, 59
Alkylresorcinols
Pyrolytic and MS fragmentation of aliphatic side-chains in ——, 59
Amines
Reversed-phase extraction chromatography using Br^--containing eluants, 181
Amino acids
Column chromatographic separation of dansyl ——, 129
Amino acids
Comparative analysis of extraction procedures and chromatographic methods on rat brain ——, 333
Amino acid
GLC separation of oxazolin-5-one derivatives of an ——, 366
Amino acids
TLC of —— with agar–agar as binder, 402
Amobarbital
Determination of low levels of —— in serum by GLC, 377
Amphetamines
Stereochemical separation and configurational assignment by GLC of N-trifluoroacetyl-L-prolyl amides of asymmetric 1-phenylisopropylamines, 285
Amylase isoenzymes
Assessment of electrophoretic mobilities of some human isoamylases, 349
Androgen esters,
A comparison of chromatographic methods for the assessment of the distribution ocefficients of the ——, 141
Anions
Isotachophoresis. The qualitative separation of ——, 165
Anticoagulants
GLC of coumarin ——, their trimethylsilyl ethers, acetates, trichloroacetates, and trifluoroacetates, 201
Antigens
The subunits of —— of ragweed pollen, 391
Asparaginase
Determination of the glutaminase activity of ——, 388
Azido complexes
TLC behaviour of a number of transition metals on DEAE–cellulose in azide/chloride media, 223
Beef heart mitochondria nucleotides
Quantitative determination of —— using a liquid chromatograph, 317
Benactyzine
Analysis of glycolic acid esters by TLC, 407
Benzo[*a*]pyrene
Determination of —— in bitumen and plants, 421
Beryllium perchlorates
Application of GC in the study of kinetics of volatile products evolved in topochemical processes, 31
Bidisin
Quantitative determination of the methyl ester of 2-chloro-3-(4-chlorophenyl) propionic acid in technical products and formulations by GC, 305
Biphenyls
Quantitative and qualitative analysis of polychlorinated —— by GLC and flame ionization detection. I. One to three chlorine atoms, 273
Bitumen
Determination of benzo[*a*]pyrene in —— and plants, 421
Br^--containing eluants
Reversed-phase extraction chromatography using ——, 181
Bunt
Identification of hexachlorobenzene residues by GLC, 198
Butyl alcohols
Stepwise substraction of oxygen-containing compounds by boric acid and lithium aluminium hydride, 47
Calcium perchlorates
Application of GC in the study of kinetics of volatile products evolved in topochemical processes, 31
Camphorsulphonic acid
GC determination of —— and its salts in pharmaceutical preparations, 311
Cannabinoids
GLC of —— in micro quantities of cannabis by solid injection, 381

Cannabis
GLC of cannabinoids in micro quantities of —— by solid injection, 381
Carbohydrates
Analysis of monosaccharides by GLC of the O-methyl glycosides as trifluoroacetate derivatives. Application to glycoproteins and glycolipids, 291
Carbon
Simultaneous —— and oxygen determination by fluorine combustion GC, 355
C_7F_{16} isomers
Separation of the —— by GC, 359
C:O ratio of compounds in GC reactions
Elucidation of GC fractions in hydrogenation and oxidation reactions, 37
Carbonyl compounds
TLC of some α,β-unsaturated ——. III, 416
S-Carboxymethylated proteins
Electrophoretic and chromatographic characterization of sulphur-rich proteins from wool, 341
Carotenoids
Magnesium hydroxide as a TLC adsorbent. III. Application to separations of vitamin A and related ——, 215
Catalytic reactions
Pulse chromatographic method for the investigation of ——, 3
Chalcone derivatives
TLC of some α,β-unsaturated carbonyl compounds. III, 416
Chalcones
TLC of some α,β-unsaturated carbonyl compounds. III, 416
Chemical amplifier
A —— (cobaltocobaltic oxide/sodium alcoholate) with flame ionization detection, 71
Chemical interactions in solutions
GC study of ——, 17
Chlorine atoms
Quantitative and qualitative analysis of polychlorinated biphenyls by GLC and flame ionization detection. I. One to three ——, 273
2-Chloro-3-(4-chlorophenyl)propionic acid
Quantitative determination of the methyl ester of —— in technical products and formulations by GC, 305
Chlorphenprop-methyl
Quantitative determination of the methyl ester of 2-chloro-3-(4-chlorophenyl)propionic acid in technical products and formulations by GC, 305
Cholesterol
TLC of steroid derivatives for radioimmunoassay, 151
Circulation techniques
Application of —— for studying the kinetics of chemical reactions by means of reaction GC, 25
Column efficiency
Resolution and —— in chromatography, 237
Column parameters
Resolution in non-linear chromatography, 87
Complex association constants
Determination of —— from GC data. I. Basic relationships, 243
Complex hydrocarbon mixtures
Rapid analysis of —— by reaction GC, 53
Conjugated oestrogens
TLC separation of —— on Silica Gel G–silver nitrate plates, 419
Cortisol
TLC of steroid derivatives for radioimmunoassay, 151
Coumarin anticoagulants
GLC of ——, their trimethylsilyl ethers, acetates, trichloroacetates, and trifluoroacetates, 201
Cumene
Pulse chromatographic method for the investigation of catalytic reactions, 3
Dansyl amino acids
Column chromatographic separation of —— 129
1,5-Diacetyl biuret
PC and reflecting-integral densitometric quantitative analysis of the mixture 1-acetyl- and —— with its cyclization product 2,4-dioxo-6-methyl-tetrahydro-*s*-triazin, 219
Digitoxin
Identification of submicrogram amounts of digoxin, ——, and their metabolic products. Isolation by chromatography and preparation of derivatives for assay by electron capture detector, 157
Digoxin
Identification of submicrogram amounts of ——, digitoxin, and their metabolic products. Isolation by chromatography and preparation of derivatives for assay by electron capture detector, 157
Dinitrophenylamino acids
TLC of amino acids with agar–agar as binder, 402
2,4-Dioxo-6-methyl-tetrahydro-*s*-triazin,
PC and reflecting-integral densitometric quantitative analysis of the mixture 1-acetyl- and 1,5-diacetyl biuret with its cyclization product ——, 219
Distribution coefficients
A comparison of chromatographic methods for the assessment of the —— of androgen esters, 141
Disulphides
Use of heavy metal salts in the analysis of organic sulphur compounds, 79
Drugs
Determination of low levels of amobarbital in serum by GLC, 377
Drugs
Identification of submicrogram amounts of digoxin, digitoxin, and their metabolic products. Isolation by chromatography and preparation of derivatives for assay by electron capture detector, 157

Dyes
Affinity chromatography of phosphofructokinase using Cibacron blue F3G-A, 209
Elucidation of GC fractions —— in hydrogenation and oxidation reactions, 37
Enzymes
Affinity chromatography of phosphofructokinase using Cibacron blue F3G-A, 209
Essential oil of mace
Identification of the major components of the ——, 115
Extrema
GC study of chemical interactions in solutions, 17
Factor analysis
Retention index–structure relationships for alcohols using ——, 249
Fatty acid esters
Separation of polyunsaturated —— by argentation CC on silicic acid, 207
Flame ionization detection
A chemical amplifier (cobaltocobaltic oxide/sodium alcoholate) with ——, 71
Fluorine combustion GC
Simultaneous carbon and oxygen determination by ——, 355
Fluorobenzenes
Separation of selected poly —— by GLC, 363
Fluorocarbons
Separation of the C_7F_{16} isomers by GC, 359
Fungicide
Identification of hexachlorobenzene residues by GLC, 198
Gas chromatography
Determination of complex association constants from —— data. Basic relationships, 243
Gas chromatography
The combination of —— and nuclear magnetic resonance spectroscopy, 194
Gas chromatography,
The precision and other aspects of —— analysis by the linear relationship method, 231
Gel adsorption chromatography
Hydrophobic interaction in ——, 123
Glutaminase activity
Determination of the —— of asparaginase, 388
Glycolic acid esters
Analysis of —— by TLC, 407
Glycolipids
Analysis of monosaccharides by GLC of the O-methyl glycosides as trifluoroacetate derivatives. Application to glycoproteins and ——, 291
Glycoproteins
Analysis of monosaccharides by GLC of the O-methyl glycosides as trifluoroacetate derivatives. Application to —— and glycolipids, 291
Glycosaminoglycans
Observations on molecular weight discrimination by filtration through porous media, 325
Hammer effect
Profile of the mobile phase in thin-film chromatography— ——, 135
Herbicides
Determination of residues of 2,4,5-trichlorophenoxyacetic acid in soil by GC of the *n*-butyl ester, 204
Herbicides
Quantitative determination of the methyl ester of 2-chloro-3-(4-chlorophenyl)propionic acid in technical products and formulations by GC, 305
Hexachlorobenzene
Identification of —— residues by GLC, 198
Hormones
Qualitative analysis of solvents in steroid —— by means of GLC and solid injection, 370
Human isoamylases
Assessment of electrophoretic mobilities of some ——, 349
Hydrocarbon mixtures
Rapid analysis of complex —— by reaction GC, 53
Hydrogen
GC measurement of ——, methane, and neon in air, 103
Hydrogenation reactions
Elucidation of GC fractions in —— and oxidation reactions, 37
Hydrophobic interaction
—— in gel adsorption chromatography, 123
Isoamylases
Assessment of electrophoretic mobilities of some human ——, 349
Isoprene
Application of circulation techniques for studying the kinetics of chemical reactions by means of reaction GC, 25
Isotachophoresis
——. The qualitative separation of anions, 165
Isotopic exchange
Mechanism of —— in a heterogeneous system, 261
Kinetics of adsorption
Pulse chromatographic method for the investigation of catalytic reactions, 3
Kinetics of catalytic reactions
Pulse chromatographic method for the investigation of catalytic reactions, 3
Kinetics of chemical reactions
Application of circulation techniques for studying the —— by means of reaction GC, 25
Kinetics of volatile products
Application of GC in the study of —— evolved in topochemical processes, 31
Lactones
TC and spectral properties of certain —— and related compounds, 411
Lignosulfonic acid model compounds
GC separation and purification of methyl esters of some ——, 368

Linear relationship method
The precision and other aspects of GC analysis by the ——, 231
Mace
Identification of the major components of the essential oil of ——, 115
Magnesium hydroxide
—— as a TLC adsorbent III. Application to separations of vitamin A and related carotenoids, 215
Magnesium perchlorates
Application of GC in the study of kinetics of volatile products evolved in topochemical processes, 31
Mercaptans
Use of heavy metal salts in the analysis of organic sulphur compounds, 79
Mass-spectrometric fragmentation
Pyrolytic and —— of aliphatic side-chains in alkylresorcinols, 59
Metals
TLC behaviour of a number of transition —— on DEAE–cellulose in azide/chloride media, 223
Metal salts, heavy
Use of —— in the analysis of organic sulphur compounds, 79
Methane
GC measurement of hydrogen, ——, and neon in air, 103
O-Methyl glycosides
Analysis of monosaccharides by GLC of the —— as trifluoroacetate derivatives. Application to glycoproteins and glycolipids, 291
Mitochondria nucleotides
Quantitative determination of beef heart —— using a liquid chromatograph, 317
Mobile phase
Profile of the —— in thin-film chromatography—the hammer effect, 135
Molecular weight discrimination
Observations on —— by filtration through porous media, 325
Monochloroacetylation of oestrogens
The —— prior to GLC with electron capture detection, 373
Monosaccharides
Analysis of —— by GLC of the O-methyl glycosides as a trifluoroacetate derivatives. Application to glycoproteins and glycolipids, 291
Neon
GC measurement of hydrogen, methane, and —— in air, 103
Non-linear chromatography
Resolution in ——, 87
Nuclear magnetic resonance spectroscopy
The combination of GC and ——, 194
Nucleotides
Quantitative determination of beef heart mitochondria —— using a liquid chromatograph, 317
Nucleotide sulphates
A rapid chromatographic method for the separation of ——, 426
Oestradiol
Separation of —— and oestriol epimers, 395
Oestriol
Separation of oestradiol and —— epimers, 395
Oestrogens
The monochloroacetylation of —— prior to GLC with electron capture detection, 373
Oestrogens
TLC separation of conjugated —— on Silica Gel G–silver nitrate plates, 419
Organic sulphur compounds
Use of heavy metal salts in the analysis of ——, 79
Oxazolin-5-one derivatives
GLC separation of —— of an amino acid, 366
Oxidation reactions
Elucidation of GC fractions in hydrogenation and ——, 37
Oxygen-containing compounds
Stepwise substraction of —— by boric acid and lithium aluminium hydride, 47
Oxygen determination
Elucidation of GC fractions in hydrogenation and oxidation reactions, 37
Oxygen
Simultaneous carbon and —— determination by fluorine combustion GC, 355
Paper tape reading control system
A —— for programming sample collection intervals in CC, 385
Pesticides
Determination of residues of 2,4,5-trichlorophenoxyacetic acid in soil by GC of the *n*-butyl ester, 204
Pesticides
Identification of hexachlorobenzene residues by GLC, 198
Pesticides
Quantitative determination of the methyl ester of 2-chloro-3-(4-chlorophenyl)propionic acid in technical products and formulations by GC, 305
1-Phenylisopropylamines
Stereochemical separation and configurational assignment by GLC of N-trifluoroacetyl-L-prolyl amides of asymmetric ——, 285
Phosphate ions
Mechanism of isotopic exchange in a heterogeneous system, 261
3′-Phosphoadenylyl sulphate
A rapid chromatographic method for the separation of nucleotide sulphates 426
Phosphofructokinase
Affinity chromatography of —— using Cibacron blue F 3G-A, 209
Photometry
On the standardization of direct spectrophotometric evaluation of chromatograms. II. A new function for ——, 399
Polychlorinated biphenyls
Quantitative and qualitative analysis of —— by GLC and flame ionization detection. I. One to three chlorine atoms, 273

Polyfluorobenzenes
Separation of selected —— by GLC, 363
Polymer compositions
Comparison of various pyrolyzers in the study of ——, 65
Polyolefinic compounds
Magnesium hydroxide as a TLC adsorbent. III. Application to separations of vitamin A and related carotenoids, 215
Polyunsaturated fatty acid esters
Separation of —— by argentation CC on silicic acid, 207
Porous media
Observations on molecular weight discrimination by filtration through ——, 325
Profile of the mobile phase
—— in thin-film chromatography—the hammer effect, 135
Progesterone
TLC of steroid derivatives for radioimmunoassay, 151
Proteins
Electrophoretic and chromatographic characterization of sulphur-rich —— from wool, 341
Proteins
Observations on molecular weight discrimination by filtration through porous media, 325
Pulse method
Application of circulation techniques for studying the kinetics of chemical reactions by means of reaction GC, 25
Pulse poisoning
Pulse chromatographic method for the investigation of catalytic reactions, 3
Pyrolytic fragmentation
—— and MS fragmentation of aliphatic side-chains in alkylresorcinols, 59
Pyrolyzers
Comparison of various —— in the study of polymer compositions, 65
Ragweed pollen
The subunits of the antigens of ——, 391
Rat brain amino acids
Comparative analysis of extraction procedures and chromatographic methods on ——, 333
Reaction gas chromatography
Introduction to the first symposium on —— held in Tallinn (Estonia, U.S.S.R.) on 6–8th July, 1971
Resolution
—— and column efficiency in chromatography 237
Resorcinols
Pyrolytic and MS fragmentation of aliphatic side-chains in alkyl ——, 59
Retention–binary stationary phase
GC study of chemical interactions in solutions, 17
Retention index–structure
—— relationships for alcohols using factor analysis, 249
Reversed-phase extraction chromatography
—— using Br^--containing eluants, 181
Saccharides
Analysis of monosaccharides by GLC of the O-methyl glycosides as trifluoroacetate derivatives. Application to glycoproteins and glycolipids, 291
Sample collection intervals
A paper tape reading control system for programming —— in CC, 385
Solid injection
Qualitative analysis of solvents in steroid hormones by means of GLC and ——, 370
Solvents
Qualitative analysis of —— in steroid hormones by means of GLC and solid injection, 370
Spectrophotometric evaluation of chromatograms
On the standardization of direct ——. II. A new function for photometry, 399
Steroid conjugates
TLC separation of conjugated oestrogens on Silica Gel G–silver nitrate plates, 419
Steroid derivatives
TLC of —— for radioimmunoassay, 151
Steroid hormones
Qualitative analysis of solvents in —— by means of GLC and solid injection, 370
Steroids
On the standardization of direct spectrophotometric evaluation of chromatograms. II. A new function for photometry, 399
Sulphides
Use of heavy metal salts in the analysis of organic sulphur compounds, 79
Sulphur-rich proteins
Electrophoretic and chromatographic characterization of —— from wool, 341
Testosterone
TLC of steroid derivatives for radioimmunoassay, 151
Topochemical processes
Application of GC in the study of kinetics of volatile products evolved in ——, 31
Transition metals
TLC behaviour of a number of —— on DEAE–cellulose in azide/chloride media, 223
2,4,5-Trichlorophenoxyacetic acid
Determination of residues of —— in soil by GC of the *n*-butyl ester, 204
Trifluoroacetate derivatives
Analysis of monosaccharides by GLC of the O-methyl glycosides as ——. Application to glycoproteins and glycolipids, 291
N-Trifluoroacetyl-L-prolyl amides
Stereochemical separation and configurational assignment by GLC of —— of asymmetric 1-phenylisopropylamines, 285
Vitamin A
Magnesium hydroxide as a TLC adsorbent. III. Application to separations of —— and related carotenoids, 215
Wool
Electrophoretic and chromatographic characterization of sulphur-rich proteins from ——, 341
Zirconium phosphate
Mechanism of isotopic exchange in a heterogeneous system, 261